Applicants: TRAININ, Solomon B.
Serial No.:   10/816,846
Filed: April 5, 2004
Page 2

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the Application. Please amend the claims to read as follows and cancel without prejudice or disclaimer the claims marked as canceled:

Listing of Claims

1.-3. (Canceled)

4.   (Currently Amended) The method ~~as in claim 1~~ of Claim 38, comprising dividing ~~a function~~ said associated command of said selected interrupt into at least two or more segments wherein a segment may be processed to completion ~~by said processor within the time available in a slot~~ before said end time.

5.   (Currently Amended) ~~The method as in claim 4, comprising dividing a background function into two or more segments.~~ The method of Claim 4, wherein said associated command is a background command.

6.-37. (Canceled)

38.   (New) A method of processing commands by a wireless adapter, comprising:

scheduling interrupts before a start time of one of a series of sequential time slots each having an unique start time and an unique end time, wherein each interrupt has an associated command;

selecting one of said scheduled interrupts before said start time based on a predetermined priority; and

processing, from said start time to no longer than an end time of said one of said time slots, at least a portion of said associated command of said selected interrupt such that only said associated command is processed during said one of said time slots.

39.   (New) The method of Claim 38, wherein said selected interrupt is an interrupt associated with a background command if an interrupt from a slot timer and an

Applicants: TRAININ, Solomon B.
Serial No.:   10/816,846
Filed: April 5, 2004
Page 3

interrupt associated with a background command have been scheduled and an interrupt associated with a transmit command, an interrupt associated with a receive command, an interrupt associated with a time accurate command, and an interrupt associated with a command determined to be more important than a background command have not been scheduled.

40. (New) The method of Claim 38, wherein said selected interrupt is an interrupt associated with a command if an interrupt from a slot timer and an interrupt associated with a command have been scheduled and an interrupt associated with a receive command has not been scheduled.

41. (New) The method of Claim 38, wherein said selected interrupt is an interrupt associated with a receive command if an interrupt from a slot timer and an interrupt associated with a receive command have been scheduled.

42. (New) The method of Claim 38, wherein said selected interrupt is an interrupt associated with a time accurate command if an interrupt from a slot timer and an interrupt associated with a time accurate command have been scheduled and an interrupt associated with a transmit command and an interrupt associated with a receive command have not been scheduled.

43. (New) The method of Claim 38, wherein said selected interrupt is an interrupt associated with a transmit command if an interrupt from a slot timer and an interrupt associated with a transmit command have been scheduled and an interrupt associated with a receive command has not been scheduled.

44. (New) The method of Claim 38, wherein said start time and said end time are synchronized to a wireless link event.

45. (New) The method of Claim 38, wherein said start time and said end time are synchronized to a time between a sequence of frames.

46. (New) A wireless device comprising a processor readable storage medium having instructions for a processor stored thereon that, when executed by the processor, result in:

Applicants: TRAININ, Solomon B.
Serial No.:   10/816,846
Filed: April 5, 2004
Page 4

scheduling interrupts before a start time of one of a series of sequential time slots each having an unique start time and an unique end time, wherein each interrupt has an associated command;

selecting one of said scheduled interrupts before said start time based on a predetermined priority; and

processing, from said start time to no longer than an end time of said one of said time slots, at least a portion of said associated command of said selected interrupt such that only said associated command is processed during said one of said time slots.

47. (New) The wireless device of Claim 46, wherein said selected interrupt is an interrupt associated with a background command if an interrupt from a slot timer and an interrupt associated with a background command have been scheduled and an interrupt associated with a transmit command, an interrupt associated with a receive command, an interrupt associated with a time accurate command, and an interrupt associated with a command determined to be more important than a background command have not been scheduled.

48. (New) The wireless device of Claim 46, wherein said selected interrupt is an interrupt associated with a command if an interrupt from a slot timer and an interrupt associated with a command have been scheduled and an interrupt associated with a receive command has not been scheduled.

49. (New) The wireless device of Claim 46, wherein said selected interrupt is an interrupt associated with a receive command if an interrupt from a slot timer and an interrupt associated with a receive command have been scheduled.

50. (New) The wireless device of Claim 46, wherein said selected interrupt is an interrupt associated with a time accurate command if an interrupt from a slot timer and an interrupt associated with a time accurate command have been scheduled and an interrupt associated with a transmit command and an interrupt associated with a receive command have not been scheduled.

Applicants: TRAININ, Solomon B.
Serial No.:   10/816,846
Filed: April 5, 2004
Page 5

51.   (New) The wireless device of Claim 46, wherein said selected interrupt is an
      interrupt associated with a transmit command if an interrupt from a slot timer and
      an interrupt associated with a transmit command have been scheduled and an
      interrupt associated with a receive command has not been scheduled.

52.   (New) The wireless device of Claim 46, wherein said start time and said end time
      are synchronized to a wireless link event.

53.   (New) The wireless device of Claim 46, wherein said start time and said end time
      are synchronized to a time between a sequence of frames.

54.   (New) The wireless device of Claim 46, wherein said instructions result in dividing
      said associated command of said selected interrupt into at least two or more
      segments wherein a segment may be processed to completion before said end time.

55.   (New) The wireless device of Claim 54, wherein said associated command is a
      background command.

56.   (New) A wireless device comprising:

      a processor readable storage medium having instructions for a processor stored
      thereon that, when executed by the processor, result in:

          scheduling interrupts before a start time of one of a series of sequential time slots
          each having an unique start time and an unique end time, wherein each interrupt
          has an associated command;

          selecting one of said scheduled interrupts before said start time based on a
          predetermined priority; and

          processing, from said start time to no longer than an end time of said one of said
          time slots, at least a portion of said associated command of said selected interrupt
          such that only said associated command is processed during said one of said time
          slots; and

      a dipole antenna operably connected to said processor.

Applicants: TRAININ, Solomon B.
Serial No.: 10/816,846
Filed: April 5, 2004
Page 6

57. (New) The wireless device of Claim 56, wherein said selected interrupt is an interrupt associated with a background command if an interrupt from a slot timer and an interrupt associated with a background command have been scheduled and an interrupt associated with a transmit command, an interrupt associated with a receive command, an interrupt associated with a time accurate command, and an interrupt associated with a command determined to be more important than a background command have not been scheduled.

58. (New) The wireless device of Claim 56, wherein said selected interrupt is an interrupt associated with a command if an interrupt from a slot timer and an interrupt associated with a command have been scheduled and an interrupt associated with a receive command has not been scheduled.

59. (New) The wireless device of Claim 56, wherein said selected interrupt is an interrupt associated with a receive command if an interrupt from a slot timer and an interrupt associated with a receive command have been scheduled.

60. (New) The wireless device of Claim 56, wherein said selected interrupt is an interrupt associated with a time accurate command if an interrupt from a slot timer and an interrupt associated with a time accurate command have been scheduled and an interrupt associated with a transmit command and an interrupt associated with a receive command have not been scheduled.

61. (New) The wireless device of Claim 56, wherein said selected interrupt is an interrupt associated with a transmit command if an interrupt from a slot timer and an interrupt associated with a transmit command have been scheduled and an interrupt associated with a receive command has not been scheduled.

62. (New) The wireless device of Claim 56, wherein said start time and said end time are synchronized to a wireless link event.

63. (New) The wireless device of Claim 56, wherein said start time and said end time are synchronized to a time between a sequence of frames.

Applicants: TRAININ, Solomon B.
Serial No.: 10/816,846
Filed: April 5, 2004
Page 7

64. (New) The wireless device of Claim 56, wherein said instructions result in dividing said associated command of said selected interrupt into at least two or more segments wherein a segment may be processed to completion before said end time.

65. (New) The wireless device of Claim 64, wherein said associated command is a background command.